#### From the

### INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: ELIZABETH A. HANLEY LAHIVE & COCKFIELD, LLP 28 STATE STREET BOSTON, MA 02109

## PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

07 MAY 2004

Applicant's or agent's file reference

BGI-154PC

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US02/21336

03 July 2002 (03.07.2002)

03 July 2002 (03.07.2002)

Applicant

#### **BASF AKTIENGESELLSCHAFT**

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (571) 272 1600

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FORWARDED:

Form PCT/IPEA/416 (July 1992)



# **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
BGI-154PC International application No.	International filing date (day/m	onth/year)	Priority date (day/month/year)		
PCT/US02/21336	03 July 2002 (03.07.2002)		03 July 2002 (03.07.2002)		
International Patent Classification (IPC)		i			
IPC(7): C12P 13/04; C12N 9/02, 9/10, 9 536/23.2	9/88, 1/20, 15/00; C07H 21/04 :	and US Cl.: 435/1	106, 189, 193, 232, 252.3, 320.1;		
Applicant					
BASF AKTIENGESELLSCHAFT			·		
Examining Authority and i	s transmitted to the applicant	according to A			
2. This REPORT consists of	a total of $\coprod$ sheets, including	g this cover she	æt.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a	total of sheets.	· · · · · · · · · · · · · · · · · · ·			
3. This report contains indica	tions relating to the following	g items:			
I Basis of the repo	· ort				
II Priority					
	III Non-establishment of report with regard to novelty, inventive step and industrial applicability				
IV Lack of unity of invention					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects	VII Certain defects in the international application				
VIII Certain observa	VIII Certain observations on the international application				
	-		·		
Date of submission of the demand	Dat	e of completion	of this report		
03 February 2004 (03.02.2004)	·	March 2004 (24.0	_		
Name and mailing address of the IPEA/U Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria Virginia 22313-1450 Facsimile No.	Tel	horized officer chand Saidha ephone No. (571)	Bell-Harres fr		

Form PCT/IPEA/409 (cover sheet)(July 1998)

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International	application	No.	

PCT/US02/21336

I.	Basis of the report
1.	With regard to the elements of the international application:*
	the international application as originally filed.
	the description:
	pages 1-49 as originally filed
	pages NONE , filed with the demand
	pages NONE, filed with the letter of
	the claims:
	pages 50-55, as originally filed
	pages NONE , as amended (together with any statement) under Article 19
	pages NONE , filed with the demand pages NONE , filed with the letter of
	the drawings:
•	pages 1-12, as originally filed pages NONE, filed with the demand
	pages NONE , filed with the letter of
	the sequence listing part of the description:
	pages 1-22 , as originally filed
	pages NONE , filed with the demand
	pages NONE, filed with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the
	language in which the international application was filed, unless otherwise indicated under this item.
	These elements were available or furnished to this Authority in the following language which is:
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination(under Rules
	55.2 and/or 55.3).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	international preliminary examination was carried out on the basis of the sequence listing:
	contained in the international application in printed form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
٠	international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing
	has been furnished.
4.	The amendments have resulted in the cancellation of:
	the description, pages NONE
	the claims, Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.
	the drawings, sheets/fig NONE
<b>5</b> .	
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
thi	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in is report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US02/21336

III. No	on-establishment of opinion with regard to novelty, inventive step and industrial applicability
	question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or e industrially applicable have not been and will not be examined in respect of:
	the entire international application,
$\boxtimes$	claims Nos. 11-15,23-28,30-35 and 39-41
becau	se·
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify):
$\boxtimes$	the description, claims or drawings (indicate particular elements below) or said claims Nos. 11-15,23-28,30-35
	and 39-41 are so unclear that no meaningful opinion could be formed (specify):
Claims report.	s listed above are Improper Multiple dependent and were not searched during establishment of the international search
•	
•	
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos.
) A ma	aningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid
	nce listing to comply with the standard provided for in Annex C of the Administrative Instructions:
	the written form has not been furnished or does not comply with the standard.
	the computer readable form has not been furnished or does not comply with the standard.
20.00	(TDE 4 (400 (Roy IT) (July 1998)



Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US02/21336

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. STATEMENT							
Novelty (N)	Clair	ms 1-10,	16-22, 29, 36	-38, 42-49		Y	YES
		ms NON				1	O
Inventive Step (IS)	Clair	ms 1-10	16-22, 29, 36	_38 <i>47_</i> 40			YES
πνοιανό οιέρ (10)		ms <u>NON</u>		-30, 42-43			<b>10</b>
Industrial Applicability (L	•	ms <u>1-10,</u> ms NON	16-22, 29, 36 F	<u>-38, 42-49</u>			YES NO
•	Cian	iis <u>NON.</u>	<u> </u>	·	·		10
airly suggest a process for enhanced nethylenetetrahydrofolate (MTF) biosynt Claims 1-10, 16-22, 29, 36-38 & 42-	thetic pathway.  49 meet the criteria	set out ir	PCT Article	e 33(4), ar			
pplicability because the subject matt	er claimed can be ma	ade or us	ed in industr	у.		· .	
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NEW CITATIONS -							
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## PATE T COOPERATION TREATY

## PCT

### NOTE OF INFORMAL COMMUNICATION WITH THE APPLICANT

(PCT Rule 66.6)

Form PCT/IPEA/428 (July 1992)

Applicant's or agent's file reference Date of informal communication International application No. (day/month/year) 24 March 2004 (24.03.2004) PCT/US02/21336 BGI-154PC Applicant **BASF AKTIENGESELLSCHAFT** personally Identity authorization **Participants** Communication checked checked known BASF AKTIENGESELLSCHAFT by telephone Applicant: Agent: Giulio A. Deconti personal Examiner(s): Tekchand Saidha Summary of communication: Applicants' Attorney, Mr. Giulio Deconti was informed that a International Preliminary Examination Report (IPER) is being established for the claims searched during establishment of International Search Report, which excludes the multiple dependent claims not searched. An extension of time limit is granted (Form PCT/IPEA/427. A copy of this note is being sent to the applicant with Form PCT/IPEA/429. PCT/IPEA/424. Name and mailing address of the IPEA/US Mail Stop PCT, Ann: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-1600 Facsimile No. (703) 305-3230